



# THE HANFORD SITE

## Central Plateau Water Treatment Facility

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- Cook food thoroughly and use a thermometer to ensure it has been cooked to a safe internal temperature
- Keep food out of the danger zone - bacteria can grow rapidly between 40 and 140 degrees. Refrigerate within 2 hours.
- Thaw turkey/meat safely - in the refrigerator, in a sink of cold water (change the water every 30 minutes), or in the microwave. Avoid thawing foods on the counter.



- **Objective of the briefing:**
  - Explain the purpose of new Central Plateau Water Treatment Facility and how it supports the Direct-Feed Low-Activity Waste program and the Hanford site
- **Related HAB Work Plan issue:**
  - Infrastructure upgrades
- **What do we want from the HAB:**
  - Information only, no advice requested

- Aging facility built in 1944
- Production limit of 2.16 million gallons/day (1,500 gallons per minute)
- Uses gaseous chlorine for treatment

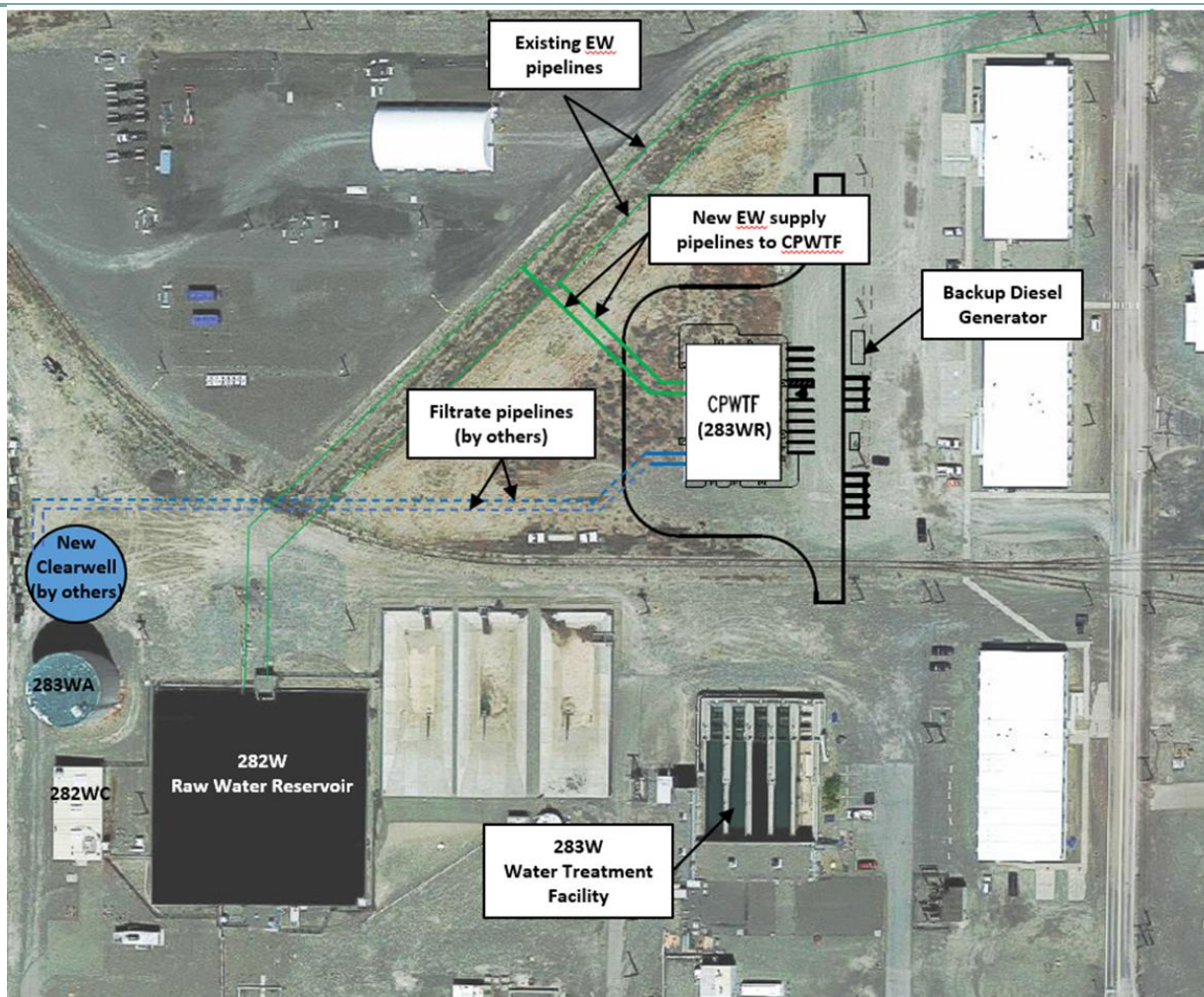


Existing 283W Water Treatment Facility





Central Plateau Water Treatment Facility - virtual interior of process room



The Central Plateau Water Treatment Facility is being built near existing Water Treatment Facility and will tie into some existing infrastructure to reduce cost of project.

- New 10,000-square-foot facility located in Hanford's 200 West Area
- Supply 3.5 million gallons of potable water per day, with capability to expand to 5 million gallons per day
- Reduces operational risks to the Direct-Feed Low- Activity Waste Facility
- Provides treated water to the Hanford Central Plateau
- Construction began September 2021, completion expected May 2023
- Testing and commissioning to be complete April 2024

- Filtration method uses hollow fiber microfiltration membranes
- Utilizes sodium hypochlorite, removing safety concern associated with bulk gaseous chlorine
- More advanced monitoring and control with both local and remote operation abilities

- <https://www.youtube.com/watch?v=0MSSkzTdXSQ>

- New 10,000-square-foot facility replaces 75-year old facility
- Supply 3.5 million gallons of potable water per day
- Ability to expand to 5 million gallons per day
- Essential to support the Direct-Feed Low-Activity Waste Program

